



November 21, 1961

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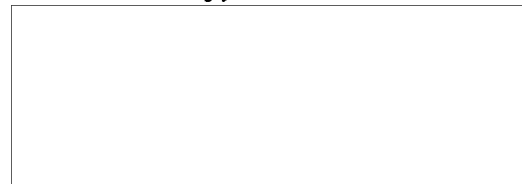
(AIR FED INCINERATORS)

Dear Sir:

Enclosed is a brief description of the test equipment which is being sent to you for use during your impending trip. Also, a few associated comments are provided.

If you have any questions, please do not hesitate to call us.

Sincerely,



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ABW:mlm

In Duplicate

Enclosure

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☐ DECL ☒ REVW ON 07/07/2010  
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Motor-Temperature-Measurement Equipment

On the basis of GE's rule of thumb, the temperature rise of the case of this open dripproof motor is approximately one-third of the temperature rise in the windings. The maximum permissible winding temperature for this motor is 90 C (194 F). Therefore, if the ambient or room temperature is 20 C (68 F), the above rule of thumb indicates that the outside case of the motor should not exceed 43 C (110 F). The following list shows maximum case temperatures for a pertinent range of ambient temperatures:

<u>Ambient or Room Temperature</u>	<u>Maximum Permissible Outside Case Temperature</u>
15 C (59 F)	40 C (104 F)
20 C (68 F)	43 C (110 F)
25 C (77 F)	47 C (116 F)
30 C (86 F)	50 C (122 F)
35 C (95 F)	53 C (128 F)
40 C (104 F)	57 C (134 F)
45 C (113 F)	60 C (140 F)
50 C (122 F)	63 C (146 F)

Tempstik temperature-indicating markers for six different temperatures, and a Fahrenheit glass thermometer with a supply of plastic putty is included in this shipment. The methods of using these are as we discussed them yesterday on the phone.

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Equipment for Measuring Utility-Line Current Frequency

A frequency meter for 48 to 52 and 58 to 62 cycles, rated at 100 to 130 volts, and a stepdown transformer to allow use of above meter on 220-volt current is included in this shipment. Tags which show the proper connections are attached to this equipment.

Equipment for Measuring Fan RPM

A revolution counter with instructions is included.

Comments on Model 1 Plenum-Chamber Pressure

Plenum-chamber pressure should be about 6 to 7 inches of water for cold air flow when the damper is wide open. This is based on the 16-7/8-inch-diameter blower wheel and 2,900 rpm for 50-cycle current.

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